



DIALOGIP™

**EXCIMER LASER OSCILLATOR****Publication Number:** 05-347448 JP 5347448 A**Published:** December 27, 1993**Inventor:**

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**Application Number:** 04-257520 JP 92257520**Filed:** June 12, 1992**International Class (IPC Edition 5) :**

H01S-003/097

H01L-021/66

H01S-003/134

**JAPIO Class:**

42.2 (ELECTRONICS--- Solid State Components)

42.3 (ELECTRONICS--- Electron Tubes)

46.2 (INSTRUMENTATION--- Testing)

**JAPIO Keywords:**

R002 (LASERS)

**Journal:** Section: E, Section No. 1532, Vol. 18, No. 188, Pg. 136, March 31, 1994**Abstract:****PURPOSE**

To supply halogen gas with high accuracy in an excimer laser oscillator having a halogen-gas supply means using a light-emitting device and a photodetector.

**CONSTITUTION**

An excimer laser oscillator has a halogen-gas supply means obtaining halogen gas concentration C in a

laser gas from the light intensity  $I$  of laser-gas transmitted light from a light-emitting device 1, in which a photodetector 2 receives light, and supplying the inside of the laser gas with halogen gas so that halogen gas concentration  $C$  reaches target concentration  $C_0$ . The halogen-gas supply means corrects halogen gas concentration  $C$  by the lowering section of light intensity based on the fouling, etc., of the windows of the light-emitting device 1 and the photodetector 2, and feeds the inside of the laser gas with halogen gas so that corrected halogen gas concentration  $C$  reaches target concentration  $C_0$ .

JAPIO

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Dialog® File Number 347 Accession Number 4355748